WDN:an 3/8/00 5673-53922

EL121363564US PATENT

Attorney's Matter No. 5673-53922

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Baldwin et al.

Application No.: 09/445,788

Filed: January 6, 2000

For: LIVE ATTENUATED VACCINES

Examiner: Unknown

Date: March 8, 2000

Art Unit: Unknown

## **CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on March 8, 2000, as Express Mail, Label No. EL121363564US, addressed to: BOX PCT, ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON D.C. 20231.

William D. Noonan, M.D Attorney for Applicant

## TRANSMITTAL LETTER

TO THE ASSISTANT COMMISSIONER FOR PATENTS Washington, DC 20231

Enclosed for filing in the application referenced above are the following:

Copy of Notification of Missing Requirements Under 35 U.S.C. § 371 in the United States Designated/Elected Office (DO/EO/US)

Response to Notice with Exhibits A and B

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit over-payment, to Account No. 02-4550. A copy of this sheet is enclosed.

Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL LEIGH & WHINSTON, LLP

By

William D. Noonan, M.D. Registration No. 30,878

One World Trade Center, Suite 1600

121 S.W. Salmon Street Portland, Oregon 97204

Telephone: (503) 226-7391 Facsimile: (503) 228-9446

Attorney's Matter No. 5673-53922

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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William D. Noonan, M.D. Attorney for Applicant

## RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

TO THE ASSISTANT COMMISSIONER FOR PATENTS Washington, DC 20231

In a Notification of Missing Requirements, the notification stated that the executed Declaration had not yet been received. In response, applicants hereby submit this statement.

Attached as Exhibit A is the Completion of Filing Requirements for International Application Entering National State in U.S. Designated Office (DO/US) Under 35 U.S.C. § 371, which was submitted to the U.S. Patent and Trademark Office on January 6, 2000. The executed Declaration is part of this exhibit. Attached as Exhibit B is a copy of the postcard from the U.S. Patent and Trademark PCT office, confirming receipt of the Declaration on January 6, 2000. It should be noted that the Express Mail No. EL307981368US on the post card receipt for the Declaration is identical to the Express Mail No. on the attached Exhibit A.

WDN:an 3/8/00 5673-53922 EL121363564US PATENT

Applicants submit that the filing requirements for the above-referenced application were completed as of January 6, 2000, and respectfully request that the Patent and Trademark Office acknowledge completion of the filing requirements under § 371 as of January 6, 2000.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL LEIGH & WHINSTON, LLP

By William D Dooucer

William D. Noonan, M.D. Registration No. 30,878

One World Trade Center, Suite 1600 121 S.W. Salmon Street

Portland, Oregon 97204 Telephone: (503) 226-7391

Facsimile: (503) 228-9446

Not vet a		PCT/GB98/01683	0.		ATTOWERS	OCCET MUHINER
	wing fees are submitted		<del></del>	7	5673-5	
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must also be filed (No	ote 37 CFR 1.9, 1.27, 1.	applicable. A Small Entit 28).	y Statement +	2	0	00
		SU	BTOTAL =	2	1120	00
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		TOTAL FEESEN	CLOSED =	\$	1120	00
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A duplicate or	py of this sheet is exclo	o in the	is smormt of ?		_ to cover the a	bove fæs.
c. X The Commissi	oner is hereby authorize	ed to charge any additiona	l foot which may be		J. 11.	
overpayment to	Deposit Account No.	02-4550 . A duplicate	copy of this sheet is	enclo:	sed.	
				•		1
NOTE: Where an app	propriate time limit un	der 37 CFR 1.494 or 1.4	95 has not been met	, a pct	ition to revive (	37 CFR
•		restore the application t	o penamg status.			
SEND ALL CORRESPOND			1.11	5	) Noorean	İ
William D. N	oonan, M.D.	•	SIGNATURE	ئے س	+ Noorian	
Klarquist Sp	arkman Campbel	L	٠.			
Leigh & '	Whinston, LLP		Willia	m D.	Noonan, M	.D.
l World Trad	e Center	=1.400	NAME	( = -		= . =
Portland, OR	n Street, Süite 97204	5 1000	30,878 REGISTRATE		MBER	
cc: Docketing s	ecretary	· ·				
DELL PTOLY AGREY IAN PHE 2 of					-	

13–109

FORM FTD-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TR. (REY. 1-M)	ATTORNEY 3 DOCKET NUMBER
TRANSMITTAL LETTER TO THE UI	
DESIGNATED/ELECTED OFFICE	
CONCERNING A FILING UNDER 3	
	AL FILING DATE PRIORITY DATE CLAIMED
PCT/GB98/01683 June 6, 1	998 June 6, 1997
LIVE ATTENUATED VACCI	NES
APPLICANT(S) FOR DO/EO/US Thomas John Baldwin, Saverio Peter Bo	rriello, Helen Mary Palmer
Applicant herewith submits to the United States Designated/Ele	caed Office (DO/EO/US) the following items and other information:
1. 🔀 This is a FIRST submission of items concerning a film	g under 35 U.S.C. 371.
2. This is a SECOND or SUBSEQUENT submission of i	tems concerning a filing under 35 U.S.C. 371.
3. This express request to begin national examination process examination until the expiration of the applicable time!	edures (35 U.S.C. 371(f)) at any time rather than delay mit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. 🔀 A proper Demand for International Preliminary Examinat	ion was made by the 19th month from the earliest claimed priority date
5. 🔯 A copy of the International Application as filed (35 U.S	
x X is transmitted herewith (required only if not to	
b. has been transmitted by the International Bure	
c. is not required, as the application was filed in	·
6. A translation of the International Application into Engl	
7. M Amendments to the claims of the International Aplication	
are transmitted herewith (required only if not	
b. have been transmitted by the International But	esu. or making such amendments has NOT expired.
d have not been made; however, the time limit to	in maxing seem aniconanicous mas 1401 expued
8. A translation of the amendments to the claims under PC	Article 19 (35 U.S.C. 371 (c)(3)).
9. X An oath or declaration of the inventor(s) (35 U.S.C. 37 i	•
0. A translation of the annexes of the International Prelimin	
(35 U.S.C. 371(e)(S)).	
Items 11, to 16, below concern document(s) or information	mcluded:
1. An Information Disclosure Statement under 37 CFR 1.9	and 1.98.
<ol> <li>An assignment document for recording. A separate cover</li> </ol>	r sheet in compliance with 37 CFR 3.28 and 3.31 is included.
3. X A FIRST preliminary amendment.	
A SECOND or SUBSEQUENT preliminary amendment	
4. A substitute specification.	
5. A change of power of attorney and/or address letter.	·
i. X Other items or information:	
[ ] Written Opinion	
[X] Preliminary Examination Repo	rt
[X] International Search Report	
[ ] Copies of references cited	

EL307981385US



Practif	tioner's Docket No	5673-53922/WDN	
		STATES DESIGNATED O	FFICE (DO/US)
PCT/	GB98/01683	June 6, 1998	June 6, 1997
	TIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
	ATTENUATED VACCINI	ES	
<u>Thoma</u>	s <u>John Baldwin, Sav</u> 爪(S) FOR DO∕US	verio Peter Borriello,	Helen Mary Palmer
Washing	nt Commissioner for Pa gton, D.C. 20231	atents	
	FOR INTERNATIONA	ON OF FILING REQUIRED LAPPLICATION ENTER TED OFFICE (DO/US) U	RING NATIONAL
	(check and con	nplete the following item, if a	applicable)
	This replies to the Noti 37 C.F.R. § 1.494 (FO	ice of Missing Requirements RM PCT/DO/EO/905).	under 35 U.S.C. § 371 and
	☐ A copy of FORM	PCT/DO/EO/905 accompani	es this response.
	(Express	ATION UNDER 37 C.F.R. § 1. Mail label number is mandatory ss Mail certification is optional.)	
is being dep envelope as	osited with the United States F "Express Mail Post Office to Ac	Requirements and the papers indica Postal Service on this date <u>Janu</u> ddressee" Mailing Label Number <u>F</u> for Patents, Washington, D.C. 202	<u>lary 6, 2000</u> , in an <u>CL307981368US</u>
		William D. Noc	nan, M.D.
		(type or print name of p W:U:umDNp	
		Signature of person ma	· <del>V</del>
WARNING:	Certificate of mailing (first clasused to obtain a date of maili	ss) or facsimile transmission procedu ing or transmission for this correspo	res of 37 C.F.R. § 1.8 cannot be
*WARNING:	Each paper or fee filed by "Explaced thereon prior to mailir "Since the filing of corresponding an oversight that can be aversight that can be aversight."	press Mail" <b>must</b> have the number	of the "Express Mail" mailing label  express Mail mailing label thereon  e care, requests for waiver of this

(Completion of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 U.S.C. § 371 [13-8] page

EL307981368US

WARNING: Where the items being submitted to complete the entry of the international application into the national phase are subsequent to 20 months from the priority date, the application is still considered to be in the international stage. If mailing procedures are utilized to obtain a date, the express mail procedure of 37 C.F.R. § 1.10 must be used (because international application papers are not covered by an ordinary certificate of mailing. 37 C.F.R. § 1.8(2)(cd).

NOTE: Documents and fees must be clearly identified as a submission to enter the national stage under 35 U.S.C. § 371. Otherwise, the submission will be considered as being made under 35 U.S.C. § 111. 37 C.F.R. § 1.494(f).

## **DECLARATION OR OATH**

I.	⊠ No o	original declaration	or oath was	filed. Enclosed	d is the original	I declaration	or oath
		application.			_		

NOTE: For surcharge fee for filing declaration after filing date, complete item IV(2).

NOTE: Acceptable minimums in the declaration in an ordinarily filed U.S. application for identification of the specification to which it applies are:

- (A) application number (consisting of the series code and the serial number, e.g., 08/123,456);
- (B) serial number and filing date;
- (C) attorney docket number which was on the specification as filed;
- (D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
- (E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration.

M.P.E.P. § 601.01(a), 7th ed. Notice of September 12, 1983 (1035 O.G. 3). See M.P.E.P. § 601.01(a), 7th ed.

NOTE: Another minimum found acceptable in the declaration is the filing date (i.e., date of express mail) and the express mail number, useful where the serial number is not yet known. But note the practice where the express mail deposit is a Saturday, Sunday or holiday within the District of Columbia. 37 C.F.R. § 1.10(c).

NOTE: 37 C.F.R. § 1.41(a) points out that "Full names must be stated, including the family name and at least one given name without abbreviation together with any other given name or initial."

(complete (a) or (b), if applicable)

### Attached is a

(a) 🗵	Statement by a registered attorney that the application filed in the PTO is the	е
	application that the inventor executed by signing the declaration.	
<b>را</b> ا		

(b) Statement that the "attached" specification is a copy of the specification and any amendments thereto that were filed in the PTO to obtain the filing date.

## **AMENDMENT**

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
l.	(complete as applicable)
	An amendment in accordance with 37 C.F.R. § 1.121 is attached.
	☐ The attached amendment cancels claims inclusively.
(Comple	tion of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 U.S.C. § 371 <b>[13-8]</b> —page 2 of 6)

## TRANSMITTAL OF ENGLISH TRANSLATION OF NON-ENGLISH LANGUAGE PAPERS

tional app	Submitted herewith, is an English translation of the non-folication papers as originally filed. It is requested that the for examination purposes in the PTO. (See 37 C.F.R. §	is translation be used as
NOTE:	For fee for processing a non-English application, and submission of a 20 months after the priority date, complete item IV(3) below.	
NOTE:	A non-English oath or declaration in the form provided or approved by to 37 C.F.R. § 1.69(b).	he PTO need not be translated
•	FEES	
IV.		•
NOTE: S	See 37 C.F.R. § 1.28(a).	•
1. Fe	es for claims	
	Each independent claim in excess of 3 (37 C.F.R. § 1.492(b)—\$78.00; small entity—\$39.00) Each claim in excess of 20 (37 C.F.R. § 1.492(c)—\$18.00; small entity—\$9.00) Multiple dependent claim(s) (37 C.F.R. § 1.492(d)—\$260.00; small entity—\$130.00) rcharge fees  Surcharge set forth in § 1.492(e), for accepting the demonths after the priority date in filing an application in the	\$s eclaration later than 20 he U.S. as a designated
	office—\$130.00; small entity—\$65.00	\$
NOTE: TI	he processing fee in the next item (Number 3) below is not subject to a re	duction for small entity status.
	Processing fee set forth in § 1.492(f), for acceptance of later than 20 months after the priority date—\$130.00	of an English translation
	Total fees	.\$
(Completio	n of Filing Requirements for International Application Entering National	

#### SMALL ENTITY STATU

V. A statement that this filling NOTE: See 37 C.F.R. § 1.28(a).	ng is by a small er	ntity
(check a	and complete appl	icable items)
a.   is attached.	•	
☐ was filed on	(ori	ginal).
b.   A separate refund	request accompa	nies this paper.
E	XTENSION OF	TIME
(сотр	olete (a) or (b), as a	applicable)
VI.		
The proceedings herein are for a apply.	patent application.	The provisions of 37 C.F.R. § 1.136(a)
		me, the fees for which are set out in umber of months checked out below
one month	\$ 110.00	\$ 55.00
<ul><li>☐ two months</li><li>☐ three months</li></ul>	\$ 380.00 \$ 870.00	
four months	\$ 1,360.00	\$ 680.00
	Fee:	\$
If an additional extension of time	ne is required, plea	ase consider this a petition therefore.
(check and co	omplete the next it	em, if applicable)
<ul><li>An extension for</li><li>therefor of \$</li><li>for the total months of</li></ul>		already been secured. The fee paid is deducted from the total fee due quested.
Extension fee due with	this request \$	
	or	_
tional petition is being	made to provide	erm is required. However, this condi- for the possibility that applicant has etition and fee for extension of time.
	TOTAL FEE DU	E
VII. The total fee due is:	2.00	
Completion fee(s)	\$0.00	<del></del>
Extension fee (if any)	\$0.00	·············
TOTAL FEE DUE \$	0.00	•
(Completion of Filing Requirements for I		Entering National Stage in Designated Office under 35 U.S.C. § 371 [13-8]—page 4 of 6)

(Rel. 79—499 Pub. 605) FORM 13-8 13-112.2

#### PAYMENT F FEES

VIII.	
	☐ Enclosed is a check in the amount of \$
	Charge Account No in the amount of
	A duplicate of this request is attached.
NOTE:	Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b).
	AUTHORIZATION TO CHARGE ADDITIONAL FEES
IX.	
WARNIN	IG: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.
	"A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).
•	"Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
	The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper, and during the entire pendency of this application, to Account No. $02-4550$
	37 C.F.R. §§ 1.492(a)(2), 1.492(a)(3), or 1.492(a)(5) (filing fees)
	37 C.F.R. § 1.492(b) (presentation of extra claims)
p ti b	Decause additional fees for excess or multiple dependent claims not paid on filing, or on later presentation, must only be paid, or these claims cancelled by amendment prior to the expiration of the ime period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with mendments after final action.
	37 C.F.R. § 1.17 (application processing fees)
	37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).
WARNING	While 37 C.F.R. § 1.17(a), (b), (c) and (d) deal with extensions of time under § 1.136(a), this authorization should be made only with the knowledge that: "Submission of the appropriate extension fee under 37 C.F.R. § 1.136(a) is to no avail unless a request or petition for extension is filed." (Emphasis added). Notice of November 5, 1985 (1060 O.G. 27).
	37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b)).
of	There an authorization to charge the issue fee to a deposit account has been filed before the mailing a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time mailing the notice of allowance. 37 C.F.R. § 1.311(b).
be of	7 C.F.R. § 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying issue fee." From the wording 37 C.F.R. § 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other an a small entity" and (b) no notification is required if the change is to another small entity.
(Completio	n of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 U.S.C. § 371 [13-8]—page 5 of 6)

37 C.F.R. § 1.492(e) and (f) (surcharge fees for filing the declaration and/or an English translation of an international application later than 20 months from the earliest claimed priority date)

WARNING: It is suggested that you always check this last authorization.

[X] Please return the enclosed postcard to confirm that the items listed above have been received.

William D Noouan

SIGNATURE OF PRACTITIONER

Reg. No. 30,878

Tel. No.: (503) 226-7391

Customer No.:

William D. Noonan, M.D.

(type or print name of practitioner)

Klarquist Sparkman Campbell Leigh & Whinston, LLP

200X: Address

One World Trade Center 121 S.W Salmon Street, Suite 1600

Portland, OR 97204

(Completion of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 U.S.C. § 371 [13-8]—page 6 of 6)

**FORM 13-8** 

13–112.4

# COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIVE ATTENUATED VACCINES, the specification of which

[]	is attached heret	0.					
[]	was filed on	as Application	ı No				
[x]	was described and claimed in PCT International Application No. PCT/GB98/01683, filed on 9 June 1998, and as amended under PCT Article 19 on (if applicable).						
[]	and was amended on (if applicable).						
[]	with amendmen	ts through	(if applicable).				
includir		at I have reviewed and unmended by any amendr	understand the contents of the nent referred to above.	above-identif	fied specification	on,	
specifie prior co 37 CFR internat foreign at least foreign	de of Federal Reg d in 35 U.S.C. § opending applicati t § 1.56 which oc- ional filing date of I hereby claim f application(s) for one country other application(s) for	ulations, § 1.56. If this 120 which discloses and on, I further acknowledgurred between the filing of the continuation-in-part oreign priority benefits a patent or inventor's certain the United States of patent or inventor's certain the United St	mation which is material to pa is a continuation-in-part appli I claims subject matter in addi- ge the duty to disclose materia g date of the prior application et application.  Under Title 35, United States ( tificate or of any PCT Interna- of America listed below and hatificate or any PCT Internation America filed by me on the sa	cation filed ution to that did information and the nation Code, § 1190 tional applicational application to the total application applica	ander the condi- isclosed in the as defined in anal or PCT a)-(d) of any ation(s) designatified below and on(s) designation	ating ny ng at	
filing da	ate before that of	the application(s) on wh	ich priority is claimed:			•	
	Prior Foreign	Application(s)		Priorit Claim	-		
	9711964.8 (Number)	Great Britain (Country)	9 June 1997 (Day/Month/Year File	[X]	[] No		
provisio	I hereby claim to onal application(s)		5, United States Code, § 119(e	e) of any Uni	ted States		
	App	olication Number		Filing Date			

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT International application(s) designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United

States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

PCT/GB98/01683	9 June 1998	Published and Pending
(Application No.)	(Filing Date)	(Status: patented,
		Pending, abandoned)

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from <u>Cantab Pharmaceuticals Research Limited</u> as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application, to file a corresponding international application, and to transact all business in the Patent and Trademark Office connected therewith:

Name	Reg. No.	Name	Reg. No.
BECKER, Mark L.	31,325	NOONAN, William D.	30,878
CALDWELL, Lisa M.	41,653	PETERSEN, David P.	28,106
DeGRANDIS, Paula A.	43,581	POLLEY, Richard J.	28,107
GEORGE, Samuel E.	44,119	SCOTTI, Robert F.	39,830
GIRARD, Michael P.	38,467	SIEGEL, Susan Alpert	43,121
JAKUBEK, Joseph T.	34,190	SLATER, Stacey C.	36,011
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KLARQUIST SPARKMAN CAMPBELL LEIGH & WHINSTON, LLP One World Trade Center, Suite 1600 121 S.W. Salmon Street Portland, OR 97204-2988

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Great Britain

United Kingdom

Residence:

Citizenship:

Post Office Address:

,	
Full Name of Sole or first Inventor: Thomas John Baldwin	
Inventor's Signature X T.J. Rolling	10/12/99
Residence: Great Britain	
Citizenship: United Kingdom	
Citizenship: United Kingdom  Post Office Address:   OS TRENT BOULEURED, WEST BRIDGERD  HOTTINGHAM. NG2 5BE.  Full Name of Second Joint Inventor, if any: Saverio Peter Borriello	T. J. Ball
Full Name of Second Joint Inventor, if any: Saverio Peter Borriello	10/12/99
Inventor's Signature	(a)
Residence: Great Britain	Date
Citizenship: United Kingdom	
Post Office Address:	
Full Name of Third Joint Inventor, if any: Helen Mary Palmer	
Inventor's Signature	

Date

WDN/SAS:an 12/9/99 5673-53-922

See page 3

# COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIVE ATTENUATED VACCINES, the specification of which

[]	is attached here	to.				
[]	was filed on	as Application	No			
[x]	was described and claimed in PCT International Application  No. PCT/GB98/01683, filed on 9 June 1998, and as amended under PCT Article 19 on (if applicable).					
[]	and was amende	ed on	(if applicable).			
[]	with amendmen	its through	(if applicable).			
includin		nat I have reviewed and u amended by any amendm	inderstand the contents of the above	e-identif	ied specification	,
specified prior co 37 CFR internati	le of Federal Reg d in 35 U.S.C. § pending applicati § 1.56 which oc ional filing date of	gulations, § 1.56. If this 120 which discloses and ion, I further acknowledge curred between the filing of the continuation-in-partoreign priority benefits upon the continuation of the continuation.	inder Title 35, United States Code	on filed up to that dormation the nation	inder the condition is closed in the in as defined in in all or PCT in all of any	ons
at least foreign least one	one country othe application(s) for country other the	r than the United States of patent or inventor's cert	tificate or of any PCT International of America listed below and have a stificate or any PCT International a America filed by me on the same such priority is claimed:	also iden pplicatio	tified below any n(s) designating	Ū
	Prior Foreign	Application(s)		Priorit Claim		
	9711964.8	Great Britain	9 June 1997	[X]	[]	
	(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	
provisio	I hereby claim t nal application(s)		, United States Code, § 119(e) of	any Uni	ed States	
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applicati			, United States Code, § 120 of any all application(s) designating the U			

Page 1 of 3

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WDN/SAS:an 12/9/99 5673-53 Full Name of Sole or first Inventor: Thomas John Baldwin Inventor's Signature Date Residence: Great Britain Citizenship: United Kingdom Post Office Address: Full Name of Second Joint Inventor, if any: Saverio Peter Borriello Inventor's Signature Residence: Great Britain Citizenship: United Kingdom Post Office Address:

Helen Mary Palmer

Inventor's Signature

Date

Residence:

Great Britain

Full Name of Third Joint Inventor, if any:

Citizenship:

United Kingdom

Post Office Address:

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specifie prior co 37 CFR internat	le of Federal Reg d in 35 U.S.C. § pending applicati § 1.56 which occional filing date o	ulations, § 1.56. If this 120 which discloses and on, I further acknowledgeurred between the filing f the continuation-in-partoreign priority benefits u	under Title 35, United States Code	on filed unto that disormation the nation	nder the sclosed as defination Po	conditio in the led in CT	
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provisio	I hereby claim the state of the		, United States Code, § 119(e) of	any Unit	ed State	s	
	Арр	olication Number	Filin	g Date	<del></del>		

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WDN/SAS:an 12/14/99 5673-53922

Full Name of Sole or first Inventor: Thomas John Baldwin Inventor's Signature Date Residence: Great Britain Citizenship: United Kingdom Post Office Address: Full Name of Second Joint Inventor, if any: Saverio Peter Borriello Inventor's Signature Date Great Britain Residence: United Kingdom Citizenship: Post Office Address: Full Name of Third Joint Inventor, if any: Helen Mary Palmer Helen M Palmer Residence: Great Britain Citizenship: United Kingdom 3 ROOKERY ROAD Post Office Address:

## UNITED STATES of AMERICA -- PATENT APPLICATION

ASSIGNMENT by Joint Inventors
THIS AGREEMENT AND ASSIGNMENT is made BETWEEN:
[1] (Dr)Thomas John BALDWIN
[2] (Prof)Saverio Peter BORRIELLO
[3] (Dr)Helen Mary PALMER
(hereinafter referred to as 'Assignors') of the one part:  AND
The MEDICAL RESEARCH COUNCIL, a corporation organized under the laws of the United Kingdom, of 20 Park Crescent, London W1N 4AL, UK;
(hereinafter referred to as 'Assignee') of the other part:
WHEREAS
A: Said Assignors are (together and to the exclusion of all others) joint inventors and joint applicants of an Application for Letters Patent of the United States of America identified as follows:
No: (USPTO phase (35 USC 371) of) PCT GB 98 01683 filed 9 June 1998
For: Live Attenuated Vaccines; (hereinafter referred to as 'Patent
Application'):
B: Said Assignors desire to make and said Assignee desires to receive an assignment of the entire right and title in and to said Patent Application and the invention disclosed therein:
NOW THEREFORE by this AGREEMENT and ASSIGNMENT it is hereby WITNESSED as follows, THAT:
1: In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to said Assignors by said Assignee, receipt whereof is hereby

Assignee absolutely the entire benefit of said Patent Application and the invention disclosed

acknowledged, said Assignors do hereby assign, sell, transfer and set over unto said

therein, including the entire right title and interest in to and under the same and all rights powers liberties and immunities arising or to arise therefrom and from any and all continuations and continuations-in-part thereof and from any and all Letters Patent which may be granted thereon and any reissue or reissues of such Letters Patent, the same to be held and enjoyed by said Assignee, for its own use and behoof and for the use and behoof of its successors, assigns or other legal representatives, to the end of the full term or terms for which Letters Patent of the United States are or may be granted or reissued, as fully and entirely as the same would or could have been held and enjoyed by the said Assignors if this assignment and sale had not been made; together with any and all claims for damages by reason of past infringement of said Letters Patent, with the right to sue for, and collect the same for its own use and behoof, and for the use and behoof of its successors, assigns and other legal representatives:

- 2: Said Assignors and each of them hereby undertake (at the expense of said Assignee) to do all acts and execute all documents necessary or desirable for further assuring the title of said Assignee to said Patent Application:
- 3: Said Assignors and each of them hereby assure warrant and covenant with said Assignee that they are lawfully entitled to assign and transfer the entire interest herein assigned, and that they have not executed, and will not execute, any instrument in conflict herewith:

Done and witnessed by the hands of the abovenamed Assignors in the presence of the below-named witnesses:

[1] T. J. Ballin	date 22 12 99
(Dr) . Thomas J. Baidin	In the presence of [witness]
	[signature]
at [place] CAMBRIAGE	TOSTANCLIFFE [name]
	31 Loys Rd CAMBRUNE [address] CB42AR
[2]	date
(Dr)	In the presence of [witness]
	[signature]
at [place]	[name]
	[address]
[3] X Peter M Palmer X	date 16-12-99 Y
(Dr) HelenMPalmer	In the presence of [witness]
	[signature]
at [place] Bristol	JOHN P. LEEMING [name]
·	10 PINEWOOD CEOSÉ [address]
•	BRISTOL BS9 44J

## UNITED STATES of AMERICA -- PATENT APPLICATION

ASSIGNMENT by Joint Inventors
THIS AGREEMENT AND ASSIGNMENT is made BETWEEN:
[1] (Dr)Thomas John BALDWIN
[2] (Prof) Saverio Peter BORRIELLO.  Sur + date analy pla  Sur + d
[3] (Dr) Helen Mary PALMER
of
(hereinafter referred to as 'Assignors') of the one part:
AND
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Done and witnessed by the hands of the abovenamed Assignors in the presence of the below-named witnesses:

[1]	date
(Dr)	In the presence of [witness]
•	[signature]
at [place]	[name]
	[address]
[2] X Prof. S. P. Borriello.	date 22/12/99  In the presence of [witness]
at [place] LONDON NW	CHK, 6/ COUMAN: Action (CONDON) NWG 57/7
[3]	date
(Dr)	In the presence of [witness]
	[signature]
at [place]	[name]
	[address]

concer

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Baldwin et al.

Application No.: Unknown

Filed: December 9, 1999

For: LIVE ATTENUATED VACCINES

Examiner: Unknown

Date: January 6, 2000

**Box PCT** 

ASSISTANT COMMISSIONER FOR PATENTS

WASHINGTON, D.C. 20231

Art Unit: Unknown

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on January 6, 2000 as Express Mail, Label No. EL307981368US, addressed to: BOX PCT, ASSISTANT COMMISSIONER FOR PATENTS,

WASHINGTON, D.C. 20231

Attorney for Applicant

## STATEMENT

The undersigned registered attorney hereby confirms that the application filed in the U.S. Patent and Trademark Office (PTO) on December 9, 1999, is identical to the application that the inventors have executed by signing the attached declarations. This application, filed in the PTO under § 371 on December 9, 1999, under attorney matter number 5673-53922, by Express Mail, Label No. EL307981385US, is identical to international application no. PCT/GB98/01683, filed June 6, 1998.

The surcharge of \$130.00 for accepting the declaration later than 20 months after the priority date in filing an application in the U.S. as a designated office was paid at the time of filing, namely December 9, 1999, as shown on the attached transmittal letter (Exhibit A). Therefore, no additional fee or authorization is included in this action.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL LEIGH & WHINSTON, LLP

William D. Noonan, M.D.

Registration No. 30,878

One World Trade Center, Suite 1600

121 S.W. Salmon Street

Portland, Oregon 97204 Telephone: (503) 226-7391

Facsimile: (503) 228-9446

ATTORNEY REF. NO. 5673-53922 INVENTOR(S) Paldwin et al. TITLE LIVE ATTENUATED VACCIN CLIENT NAME Cantab Pharmaceur The following, mailed on Jan Le 2006 by Express	tes
No. EL30798136 8US, was received in the date stamped hereon:  pp. Spec., pp. Claims, and Abstract  X Combined Declaration/POA or Oath  Verified Stmt. Claiming Small Entity Status:  Ind. Inventor Sm. Bus. Concern  Nonprofit Org Non-Inventor  Drawings Sheet(s) Formal Informal  Certified copy of Application  Assignment to:	U.S. Patent and Trademark Office on the  Associate POA  Info. Disclosure Statement  Form PTO-1449/References  X Other Statement +  Exhibit A  X Trans. Ltr. + 1 2 copy(s)  Deposit Acct. Authority
Check for \$ to cover filing	fee and assignment recordal.



WDN/SAS:an 12/8/99 5673-53922

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specifie prior co 37 CFR internati foreign at least foreign least one	le of Federal Reg d in 35 U.S.C. § spending applicati § 1.56 which oc ional filing date of I hereby claim f application(s) for one country other application(s) for e country other the	ulations, § 1.56. If this 120 which discloses and on, I further acknowled curred between the filing of the continuation-in-parameters patent or inventor's certain the United States patent or inventor's certain the United States of the united States of	mation which is material to patental is a continuation-in-part application of claims subject matter in addition ge the duty to disclose material infigurate of the prior application and reapplication.  under Title 35, United States Code retificate or of any PCT Internations of America listed below and have retificate or any PCT International a America filed by me on the same and the priority is claimed:	on filed up to that do formation the nation the nation that th	ander the conditions is closed in the as defined in onal or PCT  a)-(d) of any ation(s) designating tified below any on(s) designating at	
	Prior Foreign	Application(s)		Priori Claim		
	9711964.8 (Number)	Great Britain (Country)	9 June 1997 (Day/Month/Year Filed)	[X] Yes	[ ] No	
provisio	I hereby claim tonal application(s)		5, United States Code, § 119(e) of	any Uni	ted States	
	App	olication Number	Filin	Filing Date		
					<b>a</b>	

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Inventor's Signature		
Residence: Great Britain		Date
Citizenship: United Kingdom		
Post Office Address:		
Full Name of Second Joint Inventor, if any:	Saverio Peter Borriello	
Inventor's Signature		Date
Residence: Great Britain		Date
Citizenship: United Kingdom		
Post Office Address:		
Full Name of Third Joint Inventor, if any:	Helen Mary Palmer	
Inventor's Signature	·	- Date
Residence: Great Britain		Date
Citizenship: United Kingdom		
Post Office Address:		